MOROZOVA, Inna Aleksandrovna; FREYMUNDT, Ye.N., red.; GRYAZNOV, V.I., red.; IL'YUSHENKOVA, T.P., tekhn.red.

[Balance of the national economy and methods for compiling it]
Balans narodnogo khoziaistva i metody ego postroenila. Moskva,
Gosstatizdat TSU SSER, 1961. 143 p. (MIRA 15:2)

(Russia—Economic conditions) (Russia—Statistics)

इ.स.स.च्याहर <u>सम्बद्ध हुआ प्राप्तान स्थान । १ तुर्व स्थ</u>ान स्थान ।

CRYAZNOV, V.I., red.; USTIYANTS, V.A., red.; TSIGEL'NIK, M.Ya., red.; FRYTKOVA, R.N., tekhn. red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Problem in the mechanization of engineering and administrative work; proceedings] Voprosy mekhanizatsii inzhenernogo i upravlencheskogo truda; materialy. Moskva, Gosstatizdat, 1961. 575 p. (MIRA 15:4)

1. Vsesoyuznoye soveshchaniye po voprosam mekhanizatsii truda inzhenerno-tekhnicheskikh rabotnikov i rabotnikov administrativno-upravlencheskogo apparata, Mossow, 1960.

(Electronic calculating machines)

(Office equipment and supplies)

GRYAZNOV, V.I., kand.tekhm.nauk, dotsent

Air-cushion transportation machines. Sbor.trud.LIIZHT no.199:1633 *62. (MIRA 16:2)

(Railroad research) (Ground effect machines)

VORONIN, M.I., dotsent; GRYAZHOV, V.I., dotsent; KETLER, V.G., lotsent; PRASOV, L.Z., dotsent; VOZNESENSKIY, G.D., dotsent, kand.tekhn.cauk; ZHABOTINSKAYA, L.A., dotsent, kand.tekhn.nauk; ISANO I.M., dotsent, kand.tekhn.nauk; LAZEBNIKOV, Yu.S., dotsent, kand.tekhn muk; PROTSENKO, A.I., assistent

Manual on the design of railroads. Transp. stroi. 14 no.6:57-59 Je 164.

Through the pages of foreign magazines. (bid. 155-56

(S:81 ARIM)

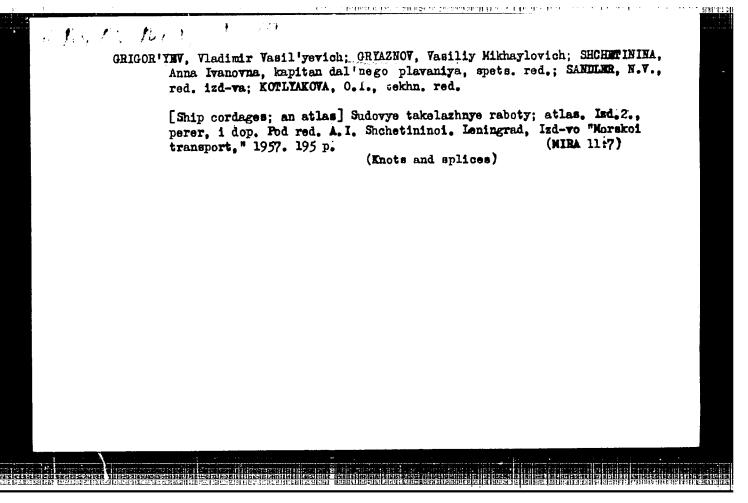
1. Leningradskly ordena Lenina institut inzhenerov zhelesnodorozhnego transporta imeni akademika V.N.Obraztsova (for Vornain, Gryaznov, Ketler, Prasov). 2. Novosibirskiy institut inzhanerov zheleznodorozhnego transporta (for Voznesenskiy, Zhabotinskaya, Isakov, Lazebnikov, Protsenko).

GRYAZNOV, V. Y.

GRIGOR'YEV, V.V.; GRYAZNOV, V.M.; SHCHETINING, A.I. kapitan dal'nego plavaniya, redartor.

[Ship cordages; collection of plates] Sudovye takelashnye raboty; atlas. Pod red. A.I.Shchetininoi. Leningrad, Gos. izd-vo vodnego transports, Leningradakce otd-nie, 1954. 131 p. (MIRA 7:7)

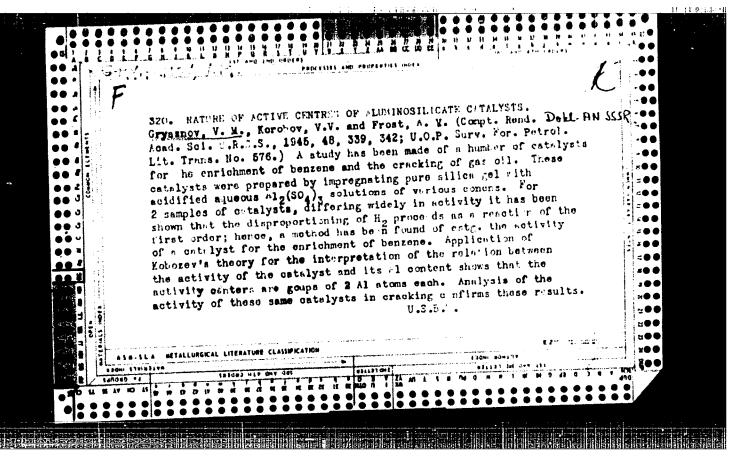
(Masts and rigging) (Knots and splices)



ADAMEK, Ye.; YAGODOVSKIY, V.D.; GHYAZNOV, V.M.

Adsorption of crypton on thermally treated platinum films. Kin.i kat. 6 nc.32486~492 My~Je 65. (MIRA 18:10)

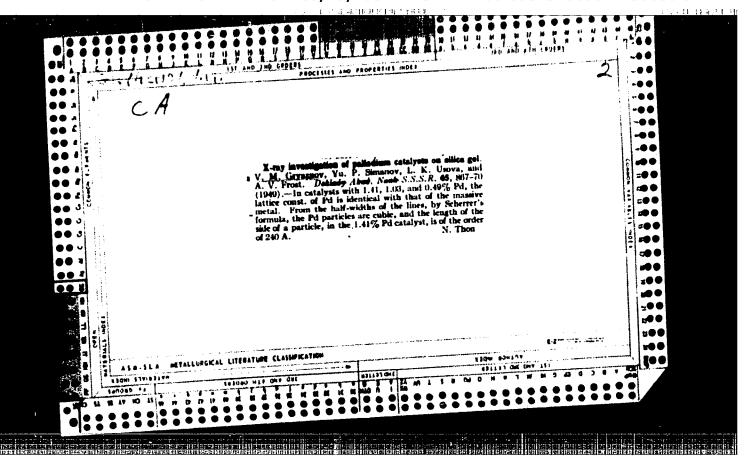
1. Universitet drumby narodom imeni Lumumbe Moskva i Karlov universitet, Praga, Chekhoslovatskaya Sotsialisticheskaya Respublika.

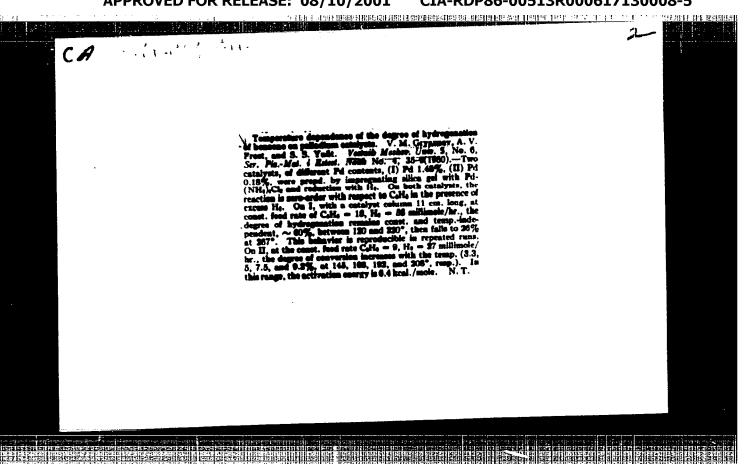


ALCHARIAN NA ANTARA BARTAR ANTARA BARTAR BA GRYAZNOV, V. M. Gryaznov, V M., Korobov, V.V. and Frost, A.V. "An estimate of the thermodynamic values of ketene and the equilibrium of its formation," Vestmik Mosk. un-ta, 1748, No. 9, p. 51-56 - Bibliog: '8 items SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

CIA-RDP86-00513R000617130008-5"

APPROVED FOR RELEASE: 08/10/2001





SHIMULIS, V.I.; YAGODOVSKIY, V.D.; GRYAZNOV, V.M.

Spectroscopic study of isomerization kinetics of allylbenzene on palladium film. Vest. Mosk. un. Ser.mat.mekh. astron.fiz. khim. 12 no.4:237-249 '57. (MIRA 11:5)

1. Laboratoriya molekulyarnoy spektroskopii Moskovskogo gosudarstvennogo universiteta.

(Benzene--Spectra) (Palladium)

AUTHORS: Gr

Gryaznov, V. M., and Yagodovskiy, V. D.

20-1-22/44

TITLE:

A Spectroscopic Investigation of the Redistribution of Hydrogen in 1,3-Cyclohexadiene on Palladium Films (Spektroskopicheskoye izucheniye pereraspredeleniye vodoroda v 1,3-tsiklogeksadiyene na plenkakh palladiya).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 1, pp. 81-84 (USSR).

ABSTRACT:

The transformation of 1,3-cyclohexadiene in the presence of palladium catalysts and platinum catalysts was studied by Zelinskiy Pavlov and a 2-stage process was determined. Bell & Thomson studied the H2-redistribution in the "Deuterization" of cyclohexadienes and of cyclohexene on platinum black and found that the results of their tests are not in agreement with the Zelinskiy-Pavlov-mechanism. Therefore it was interesting to study this redistribution under conditions at which the process does not seem to be complicated by anything. The method of the production of palladium films and the test conditions are described. The absorption spectra of 1,3-cyclomhexene were determined on the infrared 2-ray spectrometer IKS-2 (figure 2). Table 1 shows spectra of the threefold mixtures of these

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APPROVED FOR RELEASE 108/40/2004 distrCTA-RDP86-005F3R0006F7/130008-5" in 1,3-Cyclohexadiene on Palladium Films.

substances. In these latter such bands of the individual components were selected which least overlap with other bands. For them the values of the optical density $\lg (I_0/I)$ were calculated. Accorm

ding to table 1 for every one of the three hydrocarbons these values increase with their concentration concentration from 9 to 60%. Three tests (4 hours each) were carried out on fresh palladium films with equal 1,3-cyclohexadiene quantities at 50,5,73,5 and again 50,4°C. The composition of the catalysates is summarized in table 2. On increase in temperature the degree of transformation of cyclo-hexadiene increased from 39 to 94%. In the third test the activity of the palladium film sank. The molar ratio between benzene and cyclohexene, however, remained equal to 1, which completely corresponds to the first transformation stage by Zelinskiy Pavlov. Further test series showed that in the case of 2,5 hours duration of contact the transformation of cyclohexadiene is insignificant, at 50°C it approaches 40 Mol % and at 70°C it is complete. Already

Card 2/3

A Spectroscopic Investigation of the Redistribution of Hydrogen in 1,3-Cyclohexadiene on Palladium Films.

at 50°C the forming cyclohexene is converted to cyclohexane and benzene. Finally details of the behavior of the palladium film in such tests is described.

There are 2 figures, 2 tables and 11 references, 5 of which are Slavic.

ASSOCIATION: Moscow State University imeni M. V. Lomonosov. (Moskovskiy gosudarstven=

myy universitet imeni M. V. Lomonosova).

PRESENTED: By Balandin, A. A., Academician, May 3, 1957

SUBMITTED: April 27, 1957.

Card 3/3

AUTHORS: Gryaznov, V. M., Yagodovskiy, V. D., SOV/48-22-9-36/40

Shimulis; V. I.

TITLE: Methods of Spectroscopic Investigation of Catalytic

Transformations on Metal Films (Spektroskopicheskiye metody issledovaniya kataliticheskikh prevrashcheniy na plenkakh

Sangar HERFO CERTEMBER 1846 CERTEMBER 1861 BESTELLE

metallov)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1958,

Vol 22, Nr 9, pp 1136 - 1140 (USSR)

ABSTRACT: Metal films prepared under a high vacuum differ from catalysts

obtained by other methods by the high purity of their surface. Nevertheless the catalytic activity of such films is comparatively low. In the course of time it also disappears at higher temperatures. In order to determine in a rapid manner the extent of the reactions catalyzed by these films the authors employed optical cuvettes. It is possible to apply a film to their

walls and windows in vacuo. The time course of the iso-

Card 1/4 merization process of alight benzene into propenyl benzene

ा है। तो बन पंत्रत सीम्पादा हो स्वयन स्वाहनक सामा कार्यक <mark>स्वाहन सम्बद्ध स्वता विकास सम्बद्ध स्वता विकास स्वाहन</mark>

Methods of Spectroscopic Investigation of Catalytic SOV/48-22-9-36/40 Transformations on Metal Films

$$\bigcap_{-CH_2-CH} = CH_2 \longrightarrow \bigcap_{-CH=CH} - CH_3$$

on palladium films was studied with the help of ultraviolet absorption spectra. The palladium films were sublimated in a vacuum of 1.10^{-6} torr on the interior walls of a seamless fused quartz cuvette with a length of 150 mm. The cuvette was furnished with windows 1 and 1' with a diameter of 40 mm (Fig 1). The mirror monochromator ZMR -2 with a photoelectric recorder was used for the recording of the absorption spectra of allyl benzene and of propenyl benzene. The accurate method employed and the results achieved were published already in reference 1. The transformation of 1,3 cyclo hexadiene into benzene and cyclohexene even at room temperature proceeds within a few minutes. The transformations of cyclohexene into benzene and cyclohexane proceeds much slower. The transformations of cyclohexadiene on transparent palladium films with a thickness of the order of 100 A were also investigated. The films were applied directly to the

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Methods of Spectroscopic Investigation of Catalytic SOV/48-22-9-36/40 Transformations on Metal Films

windows of the seamless fused quartz cuvette. The absorption of ultraviolet radiation by the benzene which is contained in the vapors and in the layers absorbed on the cuvette windows was measurable with a cuvette length of 16 mm. The absorption spectra of benzene obtained under the conditions described were compared with those obtained from a thicker va or layer. The DFS -3 diffraction spectrograph with a dispersion of 2 % mm-1 and a theoretical resolution of 144 000 was used. 52 absorption bands were observed with a absorbing layer with a thickness of 170 mm and a benzene vapor pressure of 0,1 torr. The half width of most of the absorption bands did hardly differ from those obtained from iron arc. Apart from the extinction coefficient of the benzene absorbed on the Pd-film only small differences in the shape were observed in a comparison with the benzene absorbed on the quartz windows. This effect requires further investigation. The authors acknowledge valuable suggestions given by V.M. Tatevskiy.

Card 3/4

Methods of Spectroscopic Investigation of Catalytic SOV/48-22-9-36/40
 Transformations on Metal Films

There are 2 figures, 1 table, and 3 references, 1 of

which is Soviet.

ASSOCIATION: Laboratoriya molekulyarnoy spektroskopii Khimicheskogo

fakul'teta Moskovskogo gos. universiteta im.M.V.Lomonosova (Laboratory of Molecular Spectroscopy at the Chemistry Depart-

ment of the Moscow State University imeni M.V.

Lomonosov)

Card 4/4

(法法等主义是结构的法数数:2000年) 2011年12日 - 1201年12日 -

5(4)'
AUTHORS: Gryaznev, V. M., Yagodoveriy, V. D., SOV/20-121-3-29/47,
Bogumolinyy, A. M., Kho Dyu-Ok

TITLE: The Spectroscopic Investigation of the Adsorption and of the Catalytic Conversion of Cyclohexadiene on Transparent Films of Palladium (Spektroskopicheskoye izucheniye adsorbtsii i kataliticheskogo prevrashcheniya tsiklogeksadiyena na prozrachnykh plenkakh palladiya)

PERIODICAL: Doklady Akademii nauk SSSR 1958, Vol 121 Nr J pp 499-502 (USSR)

ABSTRACT: First, some previous papers concerning this subject are discussed in a few lines. It was desirable to work out a method for spectroscopic investigation and the datalytic conversions on metal layers with a given optical density. These metal layers should, if possible be free from foreign gases and vapors. Palladium with a thickness of ~700 Å was sublimated in a vacuum on the windows of an optical cell. These films have a noticeable catalytic activity even at room temperature. The absorption spectrum of the syclohexadiene—1.3 vapors were replaced already after some minutes by the characteristic absorption bands of

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The Spectroscopic Investigation of the Adsorption SOV/20-12: 3-29/47 and of the Catalytic Conversion of Cyclohexadiene on Transparent Films of Palladium

benzene vapors. This is an argument in favor of the practically total completion of the reaction 206H8 = C6H6 + C6H50 Palladium films with a thickness of ~ 100 Å on fluorite windows of the cell (which was used for investigations in the infrared part of the spectrum) had a less intensive catalytic activity. The absorption spectra of cyclohexadiene are demonstrated in a number of diagrams. Palladium films which dimished the light intensity passing through (at 2000 cm 1) to 25 % of the initial one were laid on the windows of both cells. Palladium has no absorption bands in this spectral part. A further diagram demonstrates the absorption spectra for a film which absorbed 30 % of the radiation intensity of the frequency cm.. Absorption at the frequency of 3050 cm. increases when the time of contact of the cyclohexadiene vapors with the palladium films increases. The intensity of the absorption bands of cyclohexadiene is slightly diminished. Extraordinarily thin palladium films on fluorite therefore also have a catalytic activity with respect to the reaction $2C_6H_8 = C_6H_6 + C_6H_{10}$. There is no band of 3050 cm in the

Card 2/3

The Spectroscopic Investigation of the Adsorption and SO7/20-121-3-29/47 of the Catalytic Conversion of Cyclohexadiene on Transparent Films of Palladium

spectrum of strongly absorbed cyclohexadiene. Therefore, there are no vibrations of the bonds C ·· H of the groups C ·· H in the spectrum of cyclohexadiene strongly absorbed on palladium. A similar result was found also for very thin palladium films of rock-salt. In this case, also the band 3050 cm⁻¹ was found. The spectra of strongly absorbed cyclohexadiene and the spectra of the vapors (for the pressures 12, 30 and 50 mm) have similar frequencies. The authors thank Professor V. M. Tatevskiy for his help and for discussing the results. There are 2 figures and 8 references, 2 of which are Soviet.

ASSOCIATION: Mcskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: April 24, 1958, by A. A. Balandin, Academician

SUBMITTED: April 11, 1958

Card 3/3

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KISELEVA, Ye.V.; KARETNIKOV, d.S.; KUDRYASHOV, I.V.; BOTVINKIN, O.K., doktor khim.nauk, retsenzent; MAKOLKIN, I.A., doktor tekhn.nauk, retsenzent; MISHCHENKO, K.P., doktor khim.nauk, retsenzent; GRYAZNOV, V.M., red.; REZUKHINA, T.N., red.; ZAZUL'SKAYA, V.F., tekhn.red.

[Collection of illustrated physical chemistry problems and exercises]
Sbornik primerov i zadach po fizicheskoi khimii. Moskva, Gos.
nauchno-tekhn.izd-vo khim.lit-ry, 1960. 264 p. (MIRA 13:7)
(Chemistry, Physical and theoretical--Problems, exercises, etc.)

FROST, Andrey Vladimirovich, prof. [decessed]. Prinimali uchastiye:

BUSHMAKIN, I.N.; VVEDENSKIY, A.A.; GRYAZNOV, V.M.; DEMCHT'YEVA,

M.I.: DINTSES, A.I.; DOBRONRAVOV, R.K.; ZHARKOVA, V.R.; ZHERKO,

A.V.; IPAT'YEV, V.N.; KVYATKOVSKIY, D.A.; KORGBOV, V.V.; MOGR,

V.G.; NEMTSOV, M.S.; RAKOVSKIY, A.V.; REMIZ, Ye.K.; RUDKOVSKIY,

D.M.; RYSAKOV, M.V.; SEREBRYAKOVA, Ye.K.; SYEFPUKHOVICH, A.D.;

STRIGALEVA, N.V.; TATEVSKIY, V.M.; TILICHEYEV, M.D.; TRIFEL',

A.G.: FROST, O.I.; SHILYATEVA, L.V.; SHCHKKIN, V.V. DOLGOPCLOV.

N.W., Sostavitel'; GERASHOV, V.V., red.; KONDRASHKOVA, S.V., red.;

TOPCHIYEVA, K.V.; YASTRKBOV, V.V., red.; KONDRASHKOVA, S.V., red.;

igd-va; LAZAREVA, L.V., tekhn.red.

[Selected scientific works] Izbrannye nauchnye trudy. Moskva,

Izd-vo Mosk.univ., 1960. 512 p. (MIRA 13:5)

1. Chlen-korrespondent AN SSSR (for Gerasimov).

(Chemistry, Physical and theoretical)

SHIMULIS, V.I.; GRYAZNOV, V.M.; CHERKASHIN, A. Ye.

Kinetics of the high-temperature isomerization of allylhenzene on platinum films. Kin. i kat. 1 no. 3:401-407 S-0 '60.

(MIRA 13:11)

1. Khimicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta.

(Benzene) (Isomerization) (Platinum)

GRYAZNOV, V.M.; YAGODOVSKIY, V.D.; CHARKVIANI, M.K.

Adsorption of cyclohexene, and kinetics of its catalytic conversion on palladium films. Vest.Mosk.un.Ser. 2: Khim. 15 no.1:11-24 '60. (MIRA 13:7)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta. (Cyclohexene) (Palladium)

S/020/60/132/05/44/069 B004/B011

5.//90 AUTHORS:

Gryaznov, V. M., Shimulis, V. I., Yagodovskiy, V. D.

TITLE:

Influence of Adsorption of Benzene Vapor on the Electrical Conductivity of Transparent Platinum Films of Various

Surface Density

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 5,

pp. 1132-1135

TEXT: The paper under review was submitted to the Konferentsiya po organicheskomu katalizu (Conference on Organic Catalysis), Moscow, November 1959. The authors investigated the influence of adsorption of benzene vapor at 20°C on the electrical conductivity of platinum films that were prepared by evaporating metals at 1.10-7 torr onto the walls of a glass cell. The benzene vapor was led through at a constant rate of

 $(3.8 \pm 0.3).10^{14}$ molecules per minute. The conductivity of all films dropped with rising stable adsorption of the benzene vapor. Fig. 1 shows, however, that the films behaved differently depending on their thickness

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Influence of Adsorption of Benzene Vapor on the S/020/60/132/05/44/069 Electrical Conductivity of Transparent Platinum B004/B011 Films of Various Surface Density

(10-50 A). In order to test the dependence of the conductivity of differently dense films on the amount of stably adsorbed benzene. experiments were conducted the results of which are given in Table 1. The authors found that the structure of the films is greatly dependent on difficultly controllable circumstances in their production. At any rate, a linear segment is shown for each film in the diagram: conductivity number of adsorbed $C_6^{\mathrm{H}}_{\mathrm{6}}$ molecules. The authors assume that the linear dependence reproduces only average values, and that at 20°C the benzene adsorption takes place in centers with different adsorption potential. They conducted experiments in which the contact wires were connected only to the upper part of the platinum film, while the benzene vapor was let into the cell either from top or from bottom (Fig. 3). The authors conclude from the results obtained that in the sections of the film where benzene is introduced there occurs both a stable and a reversible adsorption before the stable adsorption begins at the remoter film sections, and later there occurs a rearrangement of the adsorbed molecules. Under experimental conditions, the rearrangement required about 10 minutes.

Card 2/3

Influence of Adsorption of Benzene Vapor on the S/020/60/132/05/44/069 Electrical Conductivity of Transparent Platinum B004/B011 Films of Various Surface Density

There are 3 figures, 1 table, and 11 references: 3 Soviet, 1 Belgian, 1 British, and 6 German.

ASSOCIATION: Moskcvskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: February 4, 1960, by M. M. Dubinin, Academician

SUBMITTED: January 30, 1960

11

Card 3/3

E P	Effect of thermal treatment on the catalytic properties of a platinum film. Kin. i kat. 2 no.2:221-227 Mr-Ap '61. (MIRA 14:6)				
1	. Moskovskiy	gosudarstvenny (Platinum)	y universitet, k (Catalysts)	himicheskiy fak	ul ⁱ te t.
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D228/D304

24 2130 AUTHORS:

Gryaznov, V.M. and Shimulis, V.I.

TITLE:

Influence of the sorption of hydrogen on the electroconductivity of transparent films of

platinum

PERIODICAL:

Moscow. Universitet. Vestnik. Seriya II. Khimiya,

no. 6, 1961, 25-27

TEXT: In studying this question the authors used the method involving 1-3 successive flows of hydrogen through a capillary at 20°. Three transparent films of platinum – with a surface density of $2.0-3.5 \times 10^{10}$ atoms/cm² – were prepared on the glass partitions of a cell. The sorption pressure was measured by a calibrated $\Pi - 2$ (LT-2) lamp whose e.m.f. was recorded on an $\Pi - 09$ (EPP-09) potentiometer. The maximum amounts of sorbed hydrogen, calculated from sorption-isotherm diagrams,

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Influence of the sorption ...

equalled 7-12 x 10¹⁶ mcl.; the authors data appear to confirm those of N.N. Kartaradze (Ref. 3: Dokl. AN SSSR, 114, 822, 1957) concerning the fact that hydrogen is both stably and reversibly adsorbed. The results of another test with the additional admission of cyclohexane vapors suggest that stably adsorbed hydrocarbon strongly decreases the sorption of hydrogen. Intermittent rises in the resistance of one of the films, which were very pronounced at the beginning of the experiment with a single application of hydrogen, may be related to changes in the film's structure in consequence of the solution of hydrogen. Apart from these, however, the film's electroresistance smoothly decreases with increasing time, especially in the case of three successive applications of hydrogen. There are 2 figures and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION:

Kafedra fizicheskcy khimii (Department of Physi-

cal Chemistry)

SUBMITTED:

November 2, 1960

Gard 2/2

SHIMULIS, V.I.; GRYAZNOV, V.M. (Moskva)

Improved method of studying adsorption on substances with small specific surface areas. Zhur. fiz. khim. 35 no. 4:942-945 Ap *61. (MIRA 14:5)

1.6 Khimicheskiy fakulitet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.

(Adsorption)

20358

S/020/61/136/005/016/032 B103/B208

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Gryaznov, V. M., Shimulis, V. I., and Yagodovskiy, V. D.

TITLE:

AUTHORS:

Dependence of catalytic properties of metals on the degree

of approach of their surface state to equilibrium

PERIODICAL:

Doklady Akademii nauk SSSR, v. 136, no. 5, 1961, 1086-1089

TEXT: In the introduction, the authors discuss the thermodynamic conditions of equilibrium of the active centers with the crystal lattice in metal catalysts, basing on the data of 0. M. Poltorak, Refs. 4, 5; and Refs. 1, 3, 6. From their own studies and these data they came to the conclusion that a study of the kinetics of catalytic reactions in a wide temperature range permits conclusions as to the degree of equilibrium attained between the active centers and the crystal lattice of the catalyst. The influence of thermal treatment upon activity and selective effect of the catalyst may be explained on the basis of these data. If the assumptions of the authors are correct, the afore-mentioned kinetics may be used to clarify the influence of temperature and preceding thermal treatment. Particularly, at temperatures which do not give rise to an

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Dependence of catalytic properties ...

S/020/61/136/005/016/032 B103/B208

equilibrium concentration of the active centers, the degree of approach to this concentration must be mainly dependent on the cooling rate of the catalyst at elevated temperature. After quick cooling (quenching) of the catalyst the concentration of the active centers will deviate from equilibrium concentration more strongly than after slow cooling. In the case of catalytic activity of atomic structures consisting of an unequal quantity of atoms, the rates of establishing equilibrium will differ with increasing temperature; the activation energy of this process will increase from simple centers to more complicated ones. In this way, first the equilibrium concentrations of the simpler centers will be attained, and then those of the more complicated ones. The selective effect of the catalyst depends on this changed concentration of different centers. The expected effects were confirmed by the authors' experiments. Cyclohexene was dehydrogenated to benzene on a platinum film heated only up to 500°C. On a platinum film heated to 700°C in high vacuum the conversion of cyclohexene sets in only beyond 450°C, giving cyclohexadiene-1,3. Therefrom, the authors conclude that dehydrogenation to benzene takes place on more complicated centers which are less stable

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20358

S/020/61/136/005/016/032 B103/B208

Dependence of catalytic properties ...

in thermodynamic respects up to 700°C, than those yielding cyclohexadiene. The authors conclude from the fact that these more complicated centers are conserved at 500°C that the activation energy of their destruction is high. It was shown in two experimental series that the activation energy of cyclohexadiene formation between 520 and 600°C is, accordingly, 60 kcal/mole. At lower temperatures, the activity of the catalyst decreased. In the third experimental series it was 60 kcal/mole in the entire range of 450-600°C. This indicates that in this case the equilibrium concentration was attained. After quenching the film (cooling from 700 to 460°C within 4 min) the activation energy dropped to 26 kcal/mole, while the activity of the film rapidly increased. On the other hand, these values remained unchanged in the range of higher temperatures. The authors point out that the difference of the activation energies obtained, 60 - 26 = 34 kcal/mole, was the same as in the isomerization of allyl benzene on platinum films (Ref. 1). The authors assume therefore that the two reactions proceed on active centers in an equilibrium of the same type. If the centers out of equilibrium which are formed after quenching or in the course of the synthesis of the catalyst are of the

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20358 \$/020/61/136/005/016/032 B103/B208

Dependence of catalytic properties ...

same type as those being in equilibrium with the lattice of the catalyst, the formation heat of the latter may be determined by formula (8) (Ref. 2) from the difference of the activation energies obtained on the two types of centers (in equilibrium and out of equilibrium). Finally, the authors give the data obtained by other scientists (N. D. Zelinskiy and G. S. Pavlov, Ref. 8; B. V. Yerofeyev and N. V. Nikiforova, Ref. 9), which confirm their own results. There are 11 references: 9 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Moskovskiy gosudarstvemyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED: September 17, 1960, by A. A. Balandin, Academician

SUBMITTED: September 16, 1960

Card 4/4

SHIMULIS, V.I.; GRYAZNOV, V.M.

Mobility of atoms at a crystal surface at the fusion temperature.

Dokl. AN SSSR 137 no.3:648-651 Mr '61. (MIRA 14:2)

1. Moskovskiy gosudarstvennyy universitet im.M.V.Lomonosova. Pred-

stavleno akademikom M.M.Dubininym.
(Metal crystals) (Adsorption)

GRYAZNOV, V.M.; SHIMULIS, V.J.

Interaction between benzene vapors and platimum films. Kin.i kat.
2 no.4:534-537 Jl-Ag '61.

1. Moskovskiy gosustvennyy universitet imeni M.V.Lomonosova,
Khimicheskiy fakul'tet.
(Benzene) (Platimum) (Adsorption)

GRYAZNOV, V.M.; SHIMULIS, V.I.

Mechanism of cyclohexene and 1,3-cyclohexadiene transformations on platimum films. Dokl. AN SSSR 139 no.4:870-873 Ag '61. (MPA 14:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom A.A. Belandinym.

(Cyclohexene) (Cyclohexadiene)

GRYAZNOV, V.M.; SHIMULIS, V.I.

Gatalytic dehydrogenation of cyclohexene and 1,3-cyclohexadiene on platimum films at 20°. Kin.i kat. 2 no.6:894-899 No.1 '61. (MIRA 14:12)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova, khimichaskiy fakul'tat. (Cyclohexadiene)

(Cyclohexene) (Cyclohexadiene)

(Dehydrogenation)

GRYAZNOV, V.M.; YAGODOVSKIY, V.D.; SAVEL'YEVA, Ye.A.; SHIMULIS, V.I.

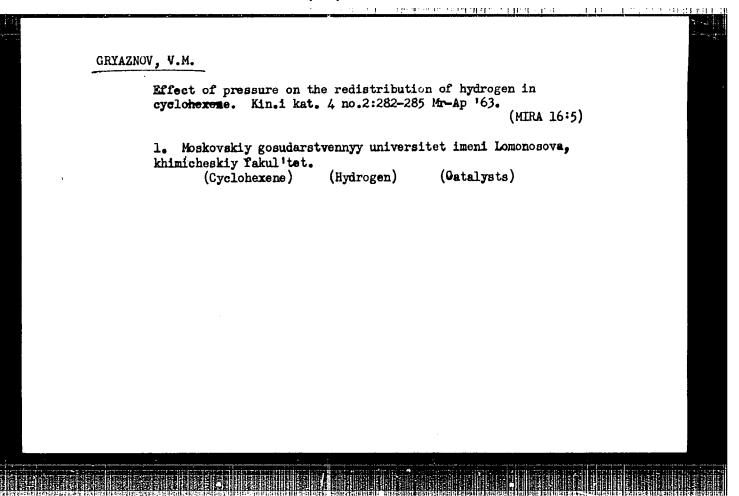
Different catalytic activities of platinum and palladium in cyclohexene and cyclohexadiene conversions. Kin.i kat. 3 no.1:99-102 '62. (MIRA 15:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimicheskiy fakul'tet. (Cyclohexadiene) (Catalysis)

GRYAZNOV, V.M.; SHIMULIS, V.I.; DILINGEROVA, T.V.

Adsorption and dehydrogenation of cyclohexane on platinum films at room temperature. Vest.Mosk.un.Ser.2: Khim. 17 no.2:26-28 Mr-Ap 162. (MIRA 15:4)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta. (Cyclohexane) (Adsorption) (Dehydrogenation)



GRYAZNOV, V.M.; YAGODOVSKIY, V.D.

Mechanism of hydrogen redistribution in cyclohexene and 1,3cyclohexadiene over palladium based on kinetic data. Kin. 1
kat. 4 no.3:404-408 My-Je ¹63. (MIRA 16:7)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova,
khimicheskiy fakul¹tet.
(Hydrogene) (Cyclohexene)
(Paladium catalysts)

YAGODOVSKIY, V.D.; GRYAZNOV, V.M.; SAVEL'YEVA, Yo.A.

Kinetics of 1,3-cyclohexadiene dehydrogenation on platinum films in a wide range of temperatures. Kin.i kat. 4 no.5: 746-752 S-0 '63. (MIRA 16:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimicheskiy fakulitet.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617130008-5"

ZEMANEK, F.; SIMULIS, V.I. [Shimulis, V.I.]; GRJAZNOV, V.M. [Gryaznov, V.M.]

Dehydration of cyclohexenes by irreversible catalysis on a palladium film. Coll Cz Chem 28 no.11:2927 2931 N.63.

1. Institut fur physikalische Chemie, Karlsuniversitat, Prag und Institut fur physikalische und Kolloidchemie, Universitat der Volkerfreundschaft, Moskau.

L 16594-63

EPF(c)/EWP(q)/EWT(m)/BDS

RM/WW/JD AFFTC Pr-4 \$/074/63/032/004/001/002

AUTHOR:

Gryaznov, V. M.

TITLE:

On the mechanism of the catalytic redistribution of hydrogen in

unsaturated cyclic hydrocarbons (

PERIODICAL:

Uspekhi khimii, v. 32, no. 4, April 1963, 433-456

The author notes the marked influence of catalyst type upon the TEXT: process referred to in the title and the relative paucity of corresponding data in the chemical literature. He proceeds to summarize in detail the various approaches to the problem in the first half of the century, devoting separate sections of the article to the dehydration-hydration theory, the direct intermolecular transfer of hydrogen atoms as a possible explanation, new data relating to palladium and platinum catalytic action, the influence of the catalyst-metal's ability to absorb hydrogen features of the use of acid catalysts, and the peculiarities of aluminosilicate catalysts in the reaction in question.

Card 1/2

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"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617130008-5

(2)

L 16594-63

On the mechanism of the catalytic...

\$/074/63/032/004/001/002

He concludes that, despite marked differences in hydrogen redistribution with use of metallic, acid and aluminosilicate catalysts, one may delineate certain basic stages common to all these types. It is the "stage" distribution which enables one to regard the varying experimental data from a unique point of view. The character of the products of the transformation depends upon the degrae of balance of the reactions of dehydration and hydration; this is made easier by maintaining the hydrogen in a form active for hydration, on the surface or in the near-surface layer of the catalyst. Much of the article is devoted to new data. There are 8 diagrams and an extensive bibliography of 100 items.

ASSOCIATION: Khimicheskiy fakul tet MGU (Chemistry Department of the Moscow State University)

Card 2/2

(MIRA 17:5)

SHIMBLIS, V. 1.; GRYAZNOV, V. M.

Adsorption of isop-ppyl alcohol vapors on germanium. Zhur. fiz.

khim. 37 no. 3:595-600 Mr 163.

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617130008-5"

GRYAZNOV, V. M.; SHIMILIS, V. I.; YAGODOVSKIY, V. D.

"About mechanism of catalytic conversions and strong adsorption of unsaturated cyclic hydrocarbons on platinum and palladium."

report submitted to 3rd Intl Cong on Catalysis, Amsterdam, 20-25 Jul 64.

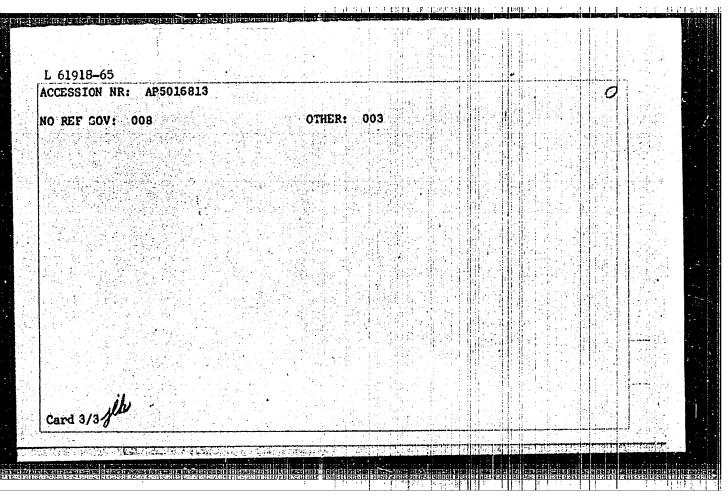
Patrice Lumumba Peoples' Friendship Univ, Moscow.

L 61918-65 EWT(m)/EPF(c)/EWP(i)/EPF(n)-2/	EWP(t)/EWP(b) Pr-4/Pn-4/		
Pu-4 IJP(c) JD/JG ACCESSION NR: AP5016813	UR/0195/68/006/003/0 541.183 : 546.294 :	486/0492 546.92 <i>4</i> /	
AUTHOR: Adamek, Ya.; Yagodovskiy, V. D.; G	ryaznov, V. M.		
TITLE: Adsorption of krypton on thermally	treated platinum films		•
SOURCE: Kinetika i kataliz, v. 6, no. 3, 1	965, 486-492		
TOPIC TAGS: adsorption, krypton, platinum	film, pyrex support, quart:	z suppoirt	
ABSTRACT: Adsorption of krypton at -195°C which were prepared by high vacuum evaporat 100°-740°C range. Both film samples were r	ion and subsequently activ	aten in rue	
at 5.107 mm Hg. The first film sample was rex glass cylinder. Effective thickness of ing to the krypton adsorption isotherms at	the Pt film was 500 angst	oms. Accord-	
thermal pretreatment (from 100° to 630°C) r ton take-up and, thus, of platinum surface	madulta in a substantial lu	CLEADE OT VIAD	
constant in the Freundlich isothern equation	on) decreased with pretreat	ment tempera-	
Card 1/3			

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子。《中国教》中的《中国教》中,中国教育、中国教育、中国教育、中国教育、中国教育、中国教育、中国教育、中国教育、
61918-65
CCESSION NR: AP5016813
ure and reached a minimum at 630°F. This indicates that the higher the pretreatment temperature the greater the decline in surface inhomogeneity. The second film sample was prepared by evaporation of Pt onto a quartz base. Effective thickness of this Pt film was 800 angstroms. In this case the increase of pretreatment temperature from 125° to the 300°-740°C range resulted in only a slight increase in crypton up-take. The shape of the krypton adsorption isotherms indicates that the sechanism of adsorption on Pt film on quartz is more complicated than the mechanism of adsorption on Pt film on quartz is more complicated than the mechanism of adsorption on Pt film on pyrex. Also, in the case of Pt on quartz, the thermal creatment resulted in an increase of the surface homogeneity. For both Pt film samples, the increase of metal surface area after thermal treatment was partially lost when samples were cooled below room temperature. This effect is explained in terms of competing processes of formation and disappearance of surface microdefects. The authors thank E. V. Khrapov and V. I. Shimulis for participation in discussion of this work." Orig. art. has: 1 table, 4 figures. ASSOCIATION: Universitet druzhby narodov im. P. Lumumby, Moscow (Friendship University); Karlov universitet, Prague, ChSSR (Karlov University, ChSSR)
The state of the s
SUBMITTED: 13Nov83
Card 2/3

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617130008-5



"Application of Infrared Spectra for the study of Catalytic Transformation on Metals," p. 2.

report to be presented at 1958 Gordon Conference on Infrared Spectroscopy, 18-22 Aug 1958, Kimballa Union Acad., Meridian, New Hampshire.

GRYAZNOV, V.N.; KHARIN, V.J.

Methodology of graphic recording of the retrograde coronary blood flow. Eksper. khir. I anest. 8 no.4:41-42 Jl.Ag '63. (MIRA 17:5)

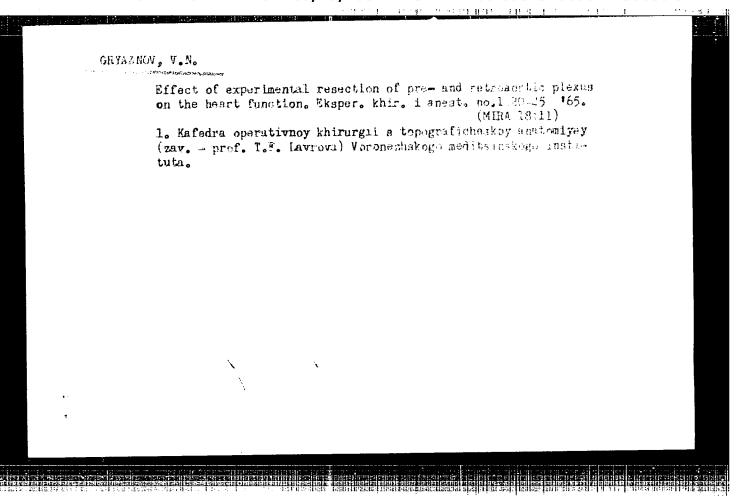
1. Kafedra operativnoy khirurgii a topograficheskoy anatomiyey (zaveduyushchiy-prof. T.F. Larrova) Voronezhakogo mediteraskogo instituta.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617130008-5"

GRYAZNOV, V.P.; SKOPAHOV, 1.Ya.

District road maintenance service in fight for the title of an enterprise of communist labor. Avt. dor. 27 no.9:17 S '64.

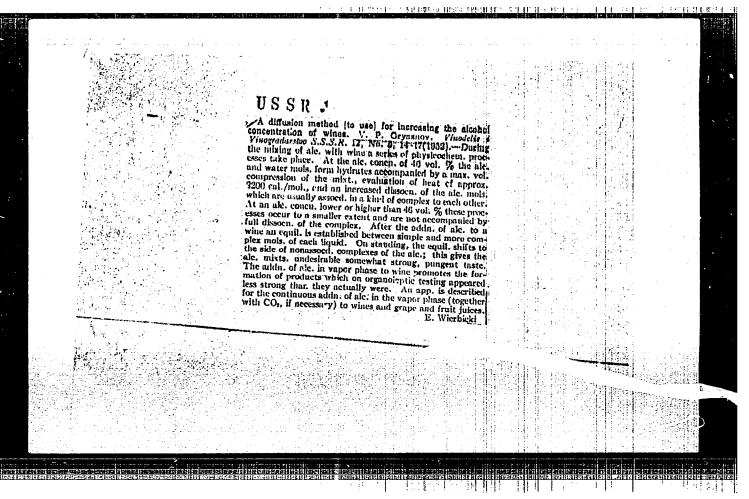
(MIRA 17:11)

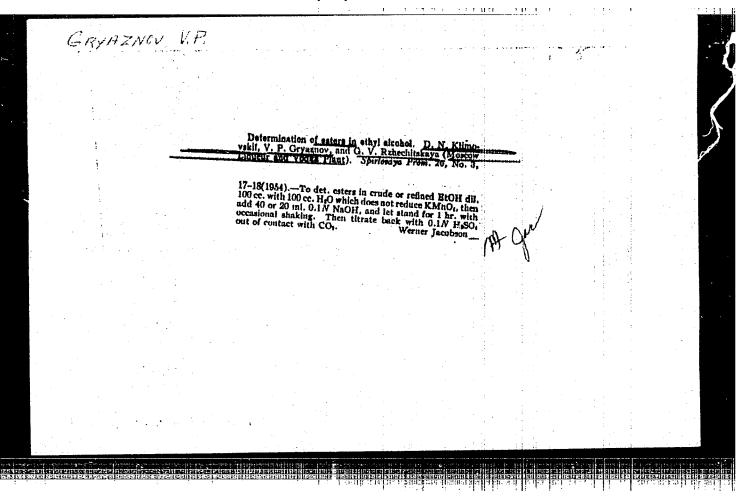


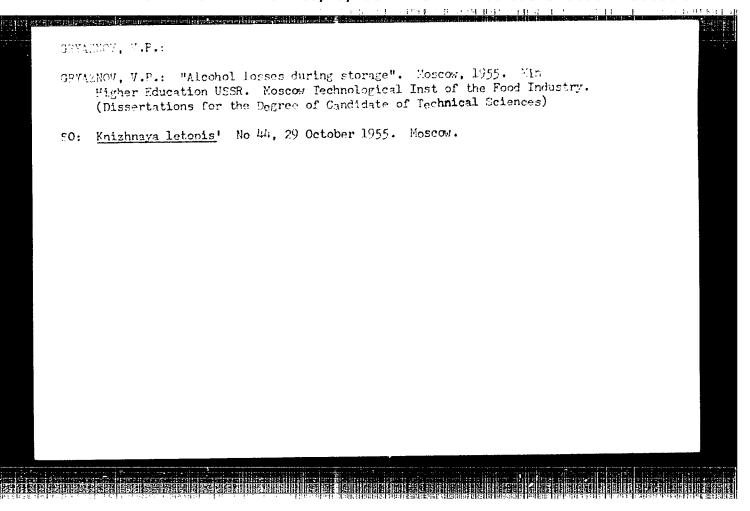
GRYAZNOV , V.P.

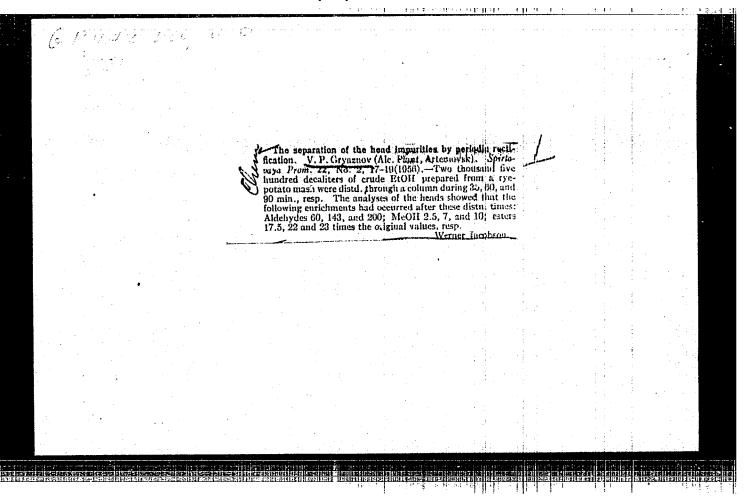
Changes in the composition of fusel oil dependent on the type and degree of defectiveness of the raw materials. Ferm. i spirt. prom. 30 no.6:11-14 '64. (MIRA 17:11)

l. Vessoyuznyy nauchno-issledovateliskiy institut fermentnoy i spirtovoy promyshlennosti.







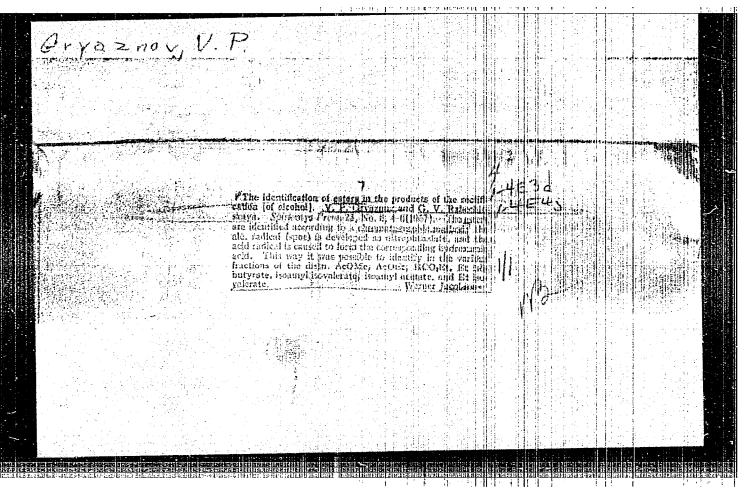


GRYAZNOV, V.P.; SOKOLOV, B.I.

Rectification of crude molasses alcohol at the Kaluga Liqueur and Vodka Plant. Spirt. prom. 23 no.2:24-25 '57. (MLRA 10:4)

1. Vsesoyuznyy nauchno-issledovatel*skiy institut spirtovny promyshlennosti. (for Gryaznov). 2. Rosglavspirt (for Sokolov)

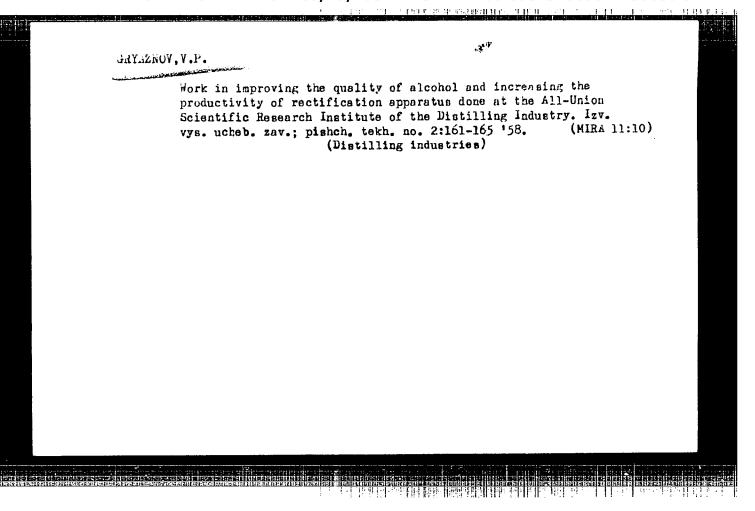
(Alcohol)



GRYAZNOV, Vyacheslav Pavlovich, kand. tekhn. nauk; ZKLIKMAN, Grigoriy
Fedorovich, kand. tekhn. nauk; KUZHNTSOV, N.M., inzh., retsenzent;
FERTMAN, G.I., kand. tekhn. nauk, spetsred.; RESH, G.S., red.;
CHEBYSHEVA, Ye.A., tekhn. red.

[Calculation, storage and transportation of distilled spirits]
Uchet, khranenie i transportifovka spirta. Moskva, Pishchepromizdat,
1958. 179 p.

(Alcohols)

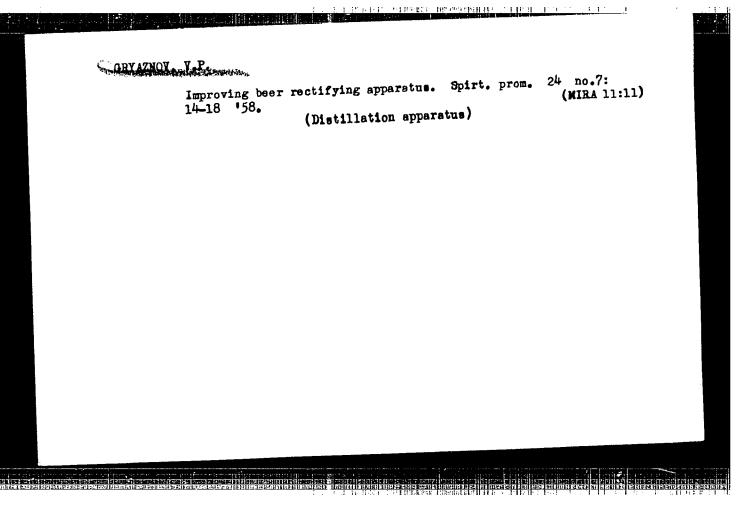


GRYAZNOV, V.P.; KALUNYANTS, K.A.; RZHECHITSKAYA, G.V.

Increasing the stripping section of the purifying column of a distillation apparatus. Spirt. prom. 24 no.3:6-10 '58.

(MIRA 11:6)

(Distillation apparatus)



GRYAZNOV, V.P.; RZHECHITSKAYA, G.V.

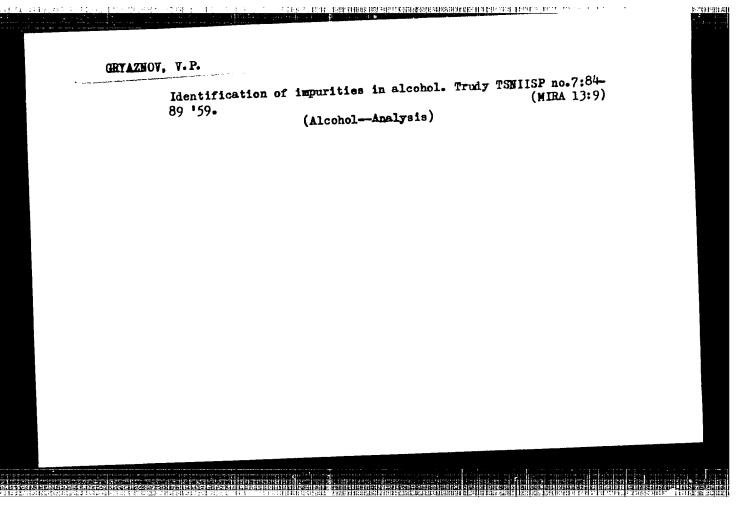
Identification of aldehydes in ethyl alcohol. Izv.vys.ucheb.
zav.; pishch.tekh. no.3:167-169 '59. (MIRA 12:12)

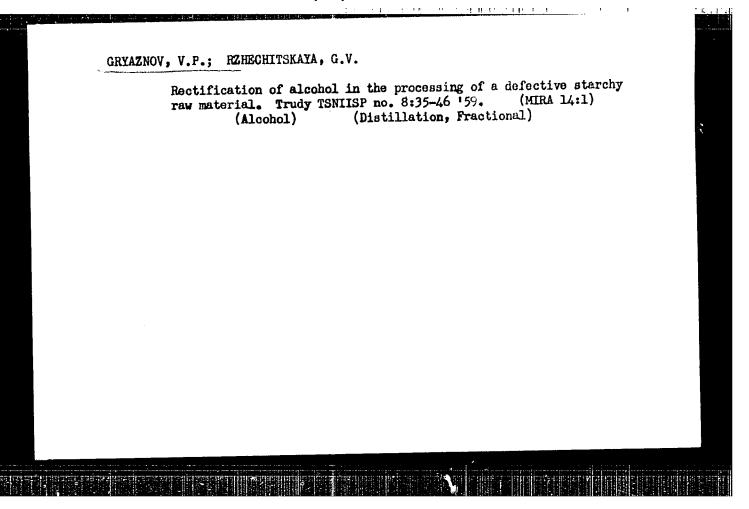
1. Vsesoyus.uy nauchno-issledovatel'skiy institut spirtovoy promyshlennosti. Ishoratoriya rektifikatsii.

(Ethyl alcohol) (Aldehydes)

GRYAZNOV, V.P.; KHOROSHKOVA, M.P.; POLOZHENTSEVA, N.G.; RZHECHITSKA, G.V. Chromatographic and spectophotometric analysis of impurities in alcohol. Izv.vys.ucheb.zav.; pishch.tekh. no.5:157-164 59.
(MIRA 13:4) 1. Vsesoyusnyy nauchno-issledovatel skiy institut spirtovoy i likerovodochnoy promyshlennosti. (Alcohols)

CIA-RDP86-00513R000617130008-5" APPROVED FOR RELEASE: 08/10/2001





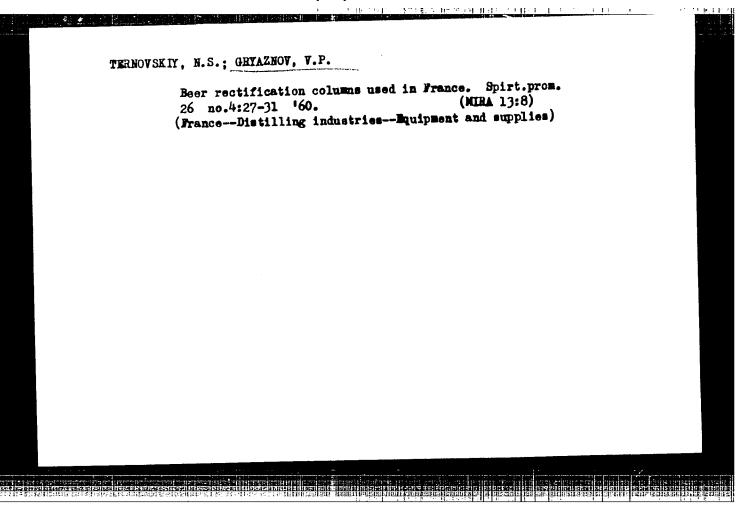
APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617130008-5"

GRYAZNOV, V.P.; PAKHALOV, A.P.; RZHECHITSKAYA, G.V.

Rectification of a crude sugar-beet alcohol in intermittent distillation apparatus. Spirt. prom. 25 no.6:19-22 '59.

(MIRA 12:12)

(Lipetsk--Alcohol) (Distillation, Fractional)



GRYAZNOV, V.P.; BOGDANOV, Yu.P.

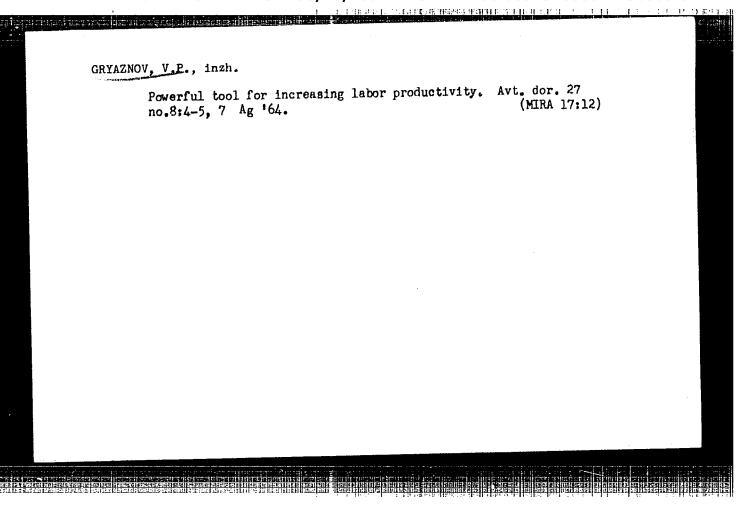
System for the thermal processing of alcohol under hydrostatic pressure. Trudy TSNIISP no.12:22-25 '62. (MIRA 17:3)

经过程分别,我们就是一个人,我们就是一个人,我们是这个人,他们是这个人,他们是这个人,他们是这个人,他们是这个人的人,我们是这个人,我们也是一个人,我们是这个人的

GRYAZNOV, V.P.; BOGDANOV, Yu.P.; RZHECHITSKAYA, G.V.; TERNOVSKIY, N.S.; GRACHEV, B.K. [deceased] MERKIN, V.G.; POLEVAYA, K.G.; AKIMENKO, I.S.

Double-flow beer rectification apparatus. Spirt. prom. 28 no.7:35-37 '62. (MIRA 17:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut spirtovoy i likero-vodochnoy promyshlennosti (for Gryaznov, Bogdanov, Rzhechitskaya, Ternovskiy). 2. Lipetskiy spirtovoy zavod (for Grachev, Merkin, Polevaya, Akimenko).



GRYAZNOV, V.P.

Comparative composition of crude alcoho' obtained from the sacchardfication of mash with malt and oy a mold fungi culture. Ferm.i spirt.prom. 31 no.1:24-25 '65.

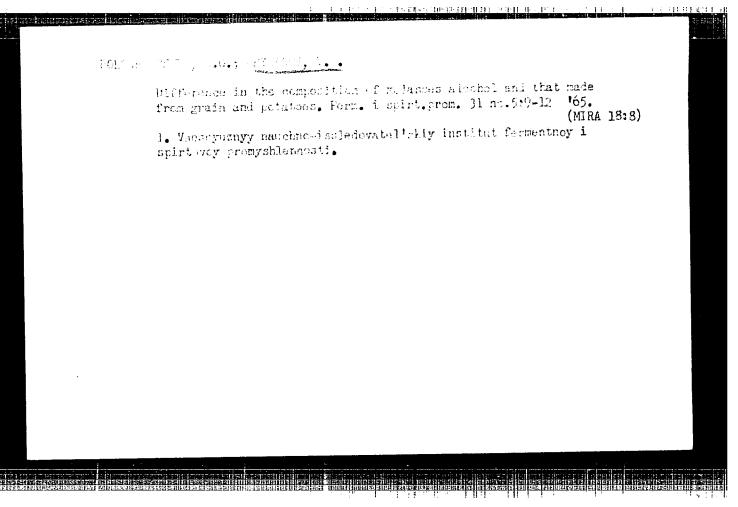
(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i spirtovoy promyshlennosti.

TERNOVSKIY, N.S.; CRYAZNOV, V.P.

Experience in the thermal processing of alcohol in the Michurinsk and Lipetsk distilleries. Ferm. i spirt. prom. 31 no.2:36-38 '65. (MIRA 18:6)

1. Gosudarstvennyy komitet po pishchevoy promyshlennosti (for Ternovskiy). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i spirtovoy promyshlennosti (for Gryaznov).



CRACHEVA, T.M., BABAYAWA, A.A., GREAZWOV, V.A.

Effect of individual amino acide on the formation of higher alcohol is alcohol fermentation. Inki, blokhim, i mikrobiol. 1 no.5:529-537 E.O 165. (MinA 18:11)

1. Moskovskiy tektnologicheskiy institut fishchevey promyshalennosti.

BOGDANOV, Yu.P.; GRYAZNOV, V.P.

Studying the process of beer distillation in apparatus operating under atmospheric pressure. Ferm. i spirt. prom. 31 no.7128-33 (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institu fermentnoy i spirtovoy promyshlennosti.

SIKILEV, V.V.; GHTAZHOV, Ye.A.; SYCHEVSKIY, P.T.

Plague outbreak among Brandt's field voles in the Mongolian
People's Republic. Izv.Irk.gos.nauch.-issl.protivochum.
inst. 19:50-59 '58.

(Plague) (Mongolia—Field mice)

(Plague) (Mongolia—Field mice)

EWT(d)/EWT(m)/EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(1) IJP(c) L 07352-67 SOURCE CODE: UR/0413/66/000/007/0100/0100 ACC NR: AP6012171 AUTHORS: Yakhimovich, D. F.; Chechina, L. G.; Zhivitskiy, A. S.; Gryaznov, Ye. Μ. 32 ORG: none TITIE: An instrument for cutting several objects from hard and brittle materials. Class 49, No. 180474 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 100 TOPIC TAGS: ultrasound, ultrasonic machining, ultrasonic equipment ABSTRACT: This Author Certificate presents an instrument for cutting several objects from hard and brittle materials. The instrument is made in the form of a concentrator with a separating plate attached to it. The plate carries a number of cutting blades (see Fig. 1). To preserve an identical amplitude of oscillations for all the blades, openings or slits are produced over the entire face of the blade group and over the whole transverse section of the concentrator. The depth of openings or of slits reaches to the translocation plane of nodes of the longitudinal oscillations. The external contours of the intermediate plate and UDC: 621.9.048.6.06 Card 1/2

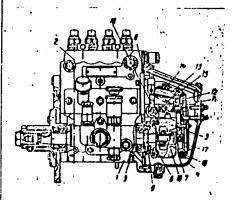
ACC NR: AP6012171 Fig. 1. 1 - waveguide; 2 3 - assembly of 4 - openings or	cutting blades;				•
	!	Manufacture Control of the Control o		1)
of the outflow stage of	the concentrator c	orrespond to	the exter	mal cont	our of
the cutting blades assem	bly. Orig. art. h	orrespond to as: 1 figure	the exter	rnal cont	our of
the cutting blades assem	bly. Orig. art. h	orrespond to as: 1 figure	the exter	rnal cont	our of
the cutting blades assem	bly. Orig. art. h	orrespond to as: 1 figure	the exter	mal cont	our of
of the outflow stage of the cutting blades assem SUB CODE: 13/ SUBM DAT	bly. Orig. art. h	orrespond to as: 1 figure	the exter	mal cont	our of

L 23877-66 EWT(i)/EV/T(m)/EPF(n)-2/ACC NR: AP6009922 (A,N)	SOURCE CODE: OR/ 0410/ 00	
AUTHOR: Bakharev, A. P.; Tumanova,	A. S.; Lisitsyn, A. A.; Rodniko	v, V. A.; Pozharov,
AUTHOR: Bakharev, A. P.; Tumanova, M. A.; Rezvov, K. M.; Smirnov, M. P.	; Latysh, V. S.; Kryuchkov, V.	Mos'kin. V. A.;
U . Vallan II. II.! Kisiov. V. G. G	ACTIVATION	64
Polonskiy, S. N.; Fedoseyev, N. I.;	<u> </u>	β
ORG: none		
TITLE: A sectional high-pressure f	pel pump. Class 46, No. 179124	
TITLE: A sectional night-pressure in		w 1066 117
SOURCE: Izobreteniya, promyshlenny	ye obraztsy, tovarnyye znaki, no	. 4, 1900, 117
TOPIC TAGS: engine fuel pump, inte		
TOPIC TAGS: engine ruel pump, inte	Indi compactors and	fug)
ABSTRACT: This Author's Certificat	e introduces: 1. A sectional hi	shaft are located
pump for internal combustion engine	8. The pumping elements and the	ulator with weights
in the pump housing. The unit also mounted on a hub which is fitted lo	osely onto the camshaft. These	weights operate a
clutch which is connected to the ru	the balton enning element for	or stable operation -
weights is connected to the camsual	o A difference of this Dum	n in which the lev-
of the pump under given conditions. er mechanism is made up of two leve	ers mounted on a common axis. 0	ne of these levers
	UDC: 621.43.031	2
i	OBC: UZZIAOTOZ	
Cgrd 1/3		

L 23877-66

ACC NR: AP6009922

is connected to the pump rod drawbar and the other is connected to the regulator spring. The lever fastened to the drawbar is also coupled with another spring which



1--housing; 2--pumping element; 3--camshaft; 4-general-purpose regulator; 5--weights; 6--hub; 7-regulator clutch; 8--rod; 9--helical spring element;
10--common axis; 11 and 12--control levers; 13-drawbars; 14--regulator spring; 15--extra spring;
16--stem; 17--clutch cavity; 18--control lever

0

moves this lever to increase fuel feed during starting of the engine. 3. A modification of this fuel
pump in which the regulator clutch is mounted on the
stem of the camshaft and prevented from rotating by
lugs on one of the levers which fit into grooves on
the clutch. The clutch cavity bounded by the end of
the shaft is filled with oil for damping. 4. A modification of this pump in which the additional spring
coupled with the lever mechanism has its other end

connected to the motor control lever so that the spring is out of operation when the control lever is moved to the minimum idling speed position after the motor is started. 5. A modification of this pump in which the lever is connected to the pump rod

Card 2/3

ACC NR: AP600992 drawbar by an eco	entric to change the cycl	ic feed of the pump d	uring regulation	n with-
out changing the SUB CODE: 13/	speed conditions of the r SUBM DATE: 13Apr62/	orig REF: 000/	OTH REF: 00	
		,		
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	÷			_ :
Card 3/3dla				,

INVENTOR: Gryaznov, Ye. M.; Podlazov, S. S.; Chechina, L. G.; Yakhimovich, D. F. 38 ORG: none TITLE: Device for ultrasonic machining. Class 49, No. 175376 Y4.55 (4 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 120 TOPIC TACS: machining, ultrasonic machining, ultrasonic tocl
TITLE: Device for ultrasonic machining. Class 49, No. 175376 Y4.55 (4 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 120
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 120
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 120
TOPIC TAGS: machining, ultrasonic machining, ultrasonic tool
ABSTRACT: This Author Certificate introduces a tool for ultrasonic machining of holes in hard and brittle material parts. To reduce heating of the tool, its front and rear parts are made of wear-resistant material, such as steel, while the middle part is made of material with high heat conductivity, such as brass. Orig. art. has: 1 figure.
SUB CODE: 06, 09/ SUBM DATE: 17Jul62/ ATD PRESS: 4/55
JW Card 1/1 UDC: 621.9.048.6.022

L 38112-65 EWT(1)

ACCESSION NR: AP5006038

B/0141/61/007/006/1205/1204

AUTHOR: Gryaznov, Yu. M.; Chastov, A. A.

TITLE: Form of sequence of spin echo when pulses not sat sfying the condition for rotation by 180° are used

SOURCE: IVUZ. Radiofizika, v. 7, no. 6, 1964, 1205-1207

TOPIC TACS: spin echo, magnetic moment, spin resonance

ABSTRACT: The article deals with observation of spin echd by the method of H. Y. Carr and E. M. Purcell (Phys. Rev. v. 94, 630, 1954), but using a sequence of pulses not satisfying the condition usually imposed, namely γH_1 it = π (H_1 -- intensity of the high-frequency field, γ -- gyromagnetic ratio, it -- duration of the pulse). It is assumed that the relaxation processes occurring during the passage of the pulse sequence can be neglected. The signal produced after the n-th pulse is calculated with the aid of a coordinate transformation in which the cumulative rotation of the magnetic moment is proportional to the number of pulses. This results in an expression that permits a more detailed investigation of the

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wave form of the spin-echo signal and which yields for the amplitu	ide of the spin-
wave form of the spin-echo signal and which judges of the spin-echo signal a value that agrees with experiment. Orig. art. has:	A loumres.
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ASSOCIATION: None	
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	AUTHOR: Gavrilov, V. N.; Gryaznov, Yu. M.; Lebedev, O. L.; Chistov, A. A.
	TITLE: Variations in <u>ruby</u> laser emission caused by placing phthalocymnine solu- tions in the resonator
	SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 2, 1965, 772-773
	TOPIC TAGS: ruby laser, coherent optical propagation, phthalogyanine, quinoline derivative, organic dye
	ABSTRACT: The effect of concentration of solutions for various phthalocyanines on the nature of ruby laser emission is investigated. Variations in laser emission were found in luminescent magnesium and zinc phthalocyanines and free phthalocyanine, and also for copper and vanadium phthalocyanines which do not show lumines-
	cence. Instead of the usual irregular pulsations in output emission, in this case one or more powerful short pulses are produced. The number of pulses increases with an increase in the transmittance of the phthalocyanine solution. Distortion of the leading edge of the pulse may be due to the narrow passband of the recording
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ACCESSION NR: AP5006539 system. The comparatively	low power of ∿1MW is	explained b	y the fact	that the	
parameters of the solutions ASSOCIATION: none	used were not optim	ım. Orig. a	rt. has: 2	figures.	
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A	CCESSION NR: AP5014195 UR/0386/65/001/002/0014/0017
A	UTHOR: Lebedev, O. L.; Gavrilov, V. N.; Gryaznov, Yu. M.; Chastov, A. A.
m	ITLE: Obtaining giant pulses from a neodymium glass laser with help of bleach- B
a	ble solutions
q	OURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Fis'ma v redaktsiyu.
P	rilozheniye, v. 1, no. 2, 1965, 14-17
- _T	OPIC TAGS: laser, neodymium glass laser, liquid Q switch, procedemical shutter,
	ciant pulse
1	BSTRACT: Emission characteristics obtained from a Q-switched neodymium glass
1	aser were described. The Q-switching was achieved with the help of a reversibly leachable liquid which was a solution of a polymethine dye in quincline. The
ء ا	experimental setup was described, which consisted of a neodymium activated glass
١,	cod and a cell with a dye solution placed in the optical cavity between the laser cod and one of the external dielectric mirrors. A few short and powerful pulses
٦.	were generated by this system. Duration of each pulse and number of pulses were
1	found to decrease to 100 nsec and one, respectively, when transmittance of the solution was gradually decreased to 36%. Orig. art. has: 2 figures. [JR]
2	solution was gradually decreased to Sow. Olig. at v. mas. 2 Albaros.
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L 27969-66 EWI(m) UR/0120/65/000/006/0072/0077 ACC NR: AP6017679 SOURCE CODE: AUTHOR: Garapov, E. F.; Gryaznov, Yu. N. ORG: none TITLE: Analysis of the gamma-gamma correspondence method used for calibration of Co sup 60 and Na sup 22 sources SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1965, 72-77 TOPIC TAGS: cobalt, sodium, radioisotope, radioactivity measurement ABSTRACT: Analysis is performed of the Y-V correspondence method used for measurement of the activity of redicactive Co⁶⁰ and Na²² sources. 10 Formulas are presented for checking the probability of recording gamma quanta of various energy levels, angular correlation, finite geometric dimensions, and calculations connected with the dead time of the apparatus used. The problem of determination of the minimal time necessary for obtaining the required accuracy is analysed. Orig. art. has: 3 figures and 26 formulas. [JPRS] SUB CODE: 18 / SUBM DATE: 02Nov64 / ORIG REF: 004 / OTH REF: UDC: 539.16.08 Card 1/1

CC NR: AP6011570	/swr(e)/swr(e)/950(k	SOURCE CODE: UI	3/0051/66/020/003/	0,007,000
UTHOR: Gryaznov,	Yu. M.; Lebedev, O. L.	; Chastov, A. A.		77.
RG: none	,/ n			B
TITLE: Passive Q-s	witching of a ruby las	er with bleachable	phthalocyanines	
OURCE: Optika i s	pektroskopiya, v. 20,	no. 3, 1966, 503-50	05	
OPIC TAGS: ruby	laser, laser R and D,	phthalocyanine		
generation of giant previous Soviet and vanadium zinc, co quinoline solutions	ication of reversibly pulses from a ruby la d American studies. pper, and metal-free were previously used and Yu. M. Gryaznov	aser was the subject Phthalocyanines of phthalocyanine in p I by a team of Sovice	ct of several magnesium, pyridine or et authors headed	
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single pulses of 1 Mw maximum power from a ruby laser. Another team of Soviet scientists headed by A. L. Mikaelyan, obtained pulses of less than 20 nsec duration from a ruby laser employing a vanadium phthalocyanine solution in nitrobenzene as a passive Q-switching element. A third Soviet team, composed of L. S. Dovger, B. A. Yermakov, A. V. Lukin, and L. P. Shklover, in a study of bleaching of certain organic solutions in the cavity of a ruby laser, found the efficiency of vanadyl phthalocyanine in nitrobenzene and kryptocyanine in methanol was nearly equal in generating giant pulses; the efficiency of zirconium phthalocyanine solution in α -bromonaphthalene was several times lower. To the present time, the best results were obtained in 1964 by a team of IBM scientists with a solution of aluminum phthalocyanine chloride in 1-chloronaphthalene.

Recently, the above-mentioned team of Soviet scientists headed by Yu. M. Gryaznov published the results of a systematic study of some 22 phthalocyanines and naphthalocyanines. These scientists attempted to expose the relationship between the energetic characteristics of giant pulses and spectral absorption properties of Q-switching solutions of the phthalocyanines studied. Only fifteen most chemically stable compounds were considered in the study with the apparent purpose of selecting the most efficient of them. Quinoline and o-dichlorobenzene were used as solvents. The total energy output of a

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series of giant pulses and the average energy output of a single pulse were generally increasing with a decrease in the difference between the wavelength of maximum absorption of the compound and the 6943 A wavelength of laser emission. This conclusion was made from a comparison of the data presented in Fig. 1 and the wavelengths of maximum absorption of the compounds, which are, respectively: 1 - 6925; 2 - 6910; 3 - 6880; 4 - 6900; 5 - 7020; 6 - 6800; 7 - 7060 A. A shift in the position of maximum absorption toward the 6943 A emission line in the sequence: Cu 'Al 'Cr 'Ga of the phthalocyanine series coincided with an increase in the emission output of the laser. The λ max of absorption also shifted one way or another when o-dichlorobenzene was substituted for quinoline as the solvent.

The best results were obtained with gallium phthalocyanine chloride and zinc naphthalocyanine. Performance of the gallium phthalocyanine chloride solution in quinoline as the passive Q-switching element in a ruby laser was illustrated by the following data. Single pulses of 18Mw power output and -40 nsec duration were obtained at 0.7j energy of a pulse (20% of the energy output in the free mode generation of the laser) from an 800 mm long cavity containing a 120 mm long ruby rod between the mirrors with 50 and 99% reflection. Width of the emission spectral line was narrowed to less than 3.10-2 Å when a bleachable solution was used.

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